

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	09/730,100
Filing Date	December 5, 2000
First Named Inventor	Nolan
Art Unit	1754
Examiner Name	Anthony J. Kuhar
Attorney Docket Number	6121

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
PL	1	US- 3,855,387	12/17/1974	Brockmiller et al.	Ab, C2, L65 - C3, L20
PL	2	US- 3,892,837	07/01/1975	Uchiyama et al.	C6-7
PL	3	US- 3,981,972	09/21/1976	Hishinuma et al.	Ab, C3-4
PL	4	US- 4,094,879	06/13/1978	Bates et al.	Ab
PL	5	US- 4,098,697	07/04/1978	DeAngelis et al.	Ab, C2, L60, C3, L60
PL	6	US- 4,190,709	02/26/1980	Hodgkin	Ab
PL	7	US- 4,230,183	10/28/1980	Kalfoglou	Ab
PL	8	US- 4,273,747	06/16/1981	Rasmussen	Ab, C3-4
PL	9	US- 4,283,303	08/11/1981	Ellis	Ab
PL	10	US- 4,285,819	08/25/1981	Yen et al.	Ab
PL	11	US- 4,377,484	03/22/1983	Nasrallah	Ab, C6
PL	12	US- 4,578,195	03/25/1986	Moore et al.	Ab, C6
PL	13	US- 4,857,183	08/15/1989	Boomer	Ab
PL	14	US- 4,889,698	12/26/1989	Moller et al.	Ab, C3-7
PL	15	US- 4,889,701	12/26/1989	Jones et al.	Ab, C4, 7, 8
PL	16	US- 4,975,264	12/04/1990	Franken	Ab, C3, 4
PL	17	US- 5,139,982	08/18/1992	Ayala et al.	Ab
PL	18	US- 5,168,065	12/01/1992	Jankura et al.	Ab, C2-4
PL	19	US- 5,238,665	08/24/1993	Lerner	Ab, C4

FOREIGN PATENT DOCUMENTS

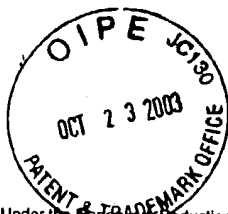
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	80	JP-64-557-B	06/22/1974	Nippon Mining	Ab	
	85A	EP-0709128-A	06/01/1986	Kubisa et al.		
	86	DE-19731162-A	01/28/1999	Holste et al.		
PL	88	EP-0294658	12/14/1988	Ebara Corp.	Ab, Fig 1	
PL	89	JP-06296825	10/25/1994	Ebara Corp.	Ab, Claim 1	✓
PL	90	JP-07299328	11/14/1995	Metallgesellschaft	Ab, Claim 1, P2	✓

Examiner Signature		Date Considered	8/24/04
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Sheet 2 of 4**U. S. PATENT DOCUMENTS**

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PL	20	US- 5,246,471	09/21/1993	Bhat et al.	C2-3
PL	21	US- 5,308,509	05/03/1994	Bhat et al.	C2
PL	22	US- 5,354,363	10/11/1994	Brown, Jr. et al.	Ab.
PL	23	US- 5,357,002	10/18/1994	Lezzi et al.	Ab
PL	24	US- 5,372,940	12/13/1994	Sakamoto et al.	Ab
PL	25	US- 5,380,747	01/10/1995	Medford et al.	
PL	26	US- 5,405,593	04/11/1995	Knudson	Ab
PL	27	US- 5,428,154	06/27/1995	Gansow et al.	
PL	28	US- 5,459,276	10/17/1995	Kuhn et al.	Ab
PL	29	US- 5,459,040	10/17/1995	Hammock et al.	Ab
PL	30	US- 5,500,196	03/19/1996	Rogers et al.	Ab, C1-2
PL	31	US- 5,520,897	05/28/1996	Rogers et al.	Ab, C1-2
PL	32	US- 5,564,105	10/08/1996	Alvino et al.	Ab, C2-3
PL	33	US- 5,622,996	04/22/1997	Fish	Ab
PL	34	US- 5,672,323	09/30/1997	Bhat et al.	Ab, C1-2
PL	35	US- 5,750,351	05/12/1998	Medford et al.	
PL	36	US- 5,773,209	06/30/1998	Medford et al.	
PL	37	US- 5,773,231	06/30/1998	Medford et al.	
PL	38	US- 5,783,596	07/21/1998	Medford et al.	

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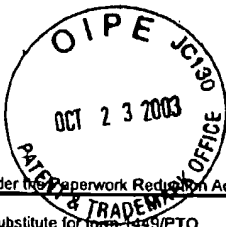
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PL	91	JP10249154	09/22/1998	Kawasaki Heavy	Ab	<input checked="" type="checkbox"/>
PL	92	JP62186925	08/15/1987	Mitsubishi Heavy	Ab	<input type="checkbox"/>
PL	94	JP57007232	01/14/1982	Tohonen KK	Ab	<input checked="" type="checkbox"/>
PL	100	JP6245325	02/27/1987	Mitsubishi Heavy	Ab, P1, 4	<input checked="" type="checkbox"/>
PL	101	JP5023540	02/02/1993	Yoshikubo et al	Ab	<input checked="" type="checkbox"/>
PL	102	CA2158671	07/31/2001	Sitges	Ab, P2, 3	<input type="checkbox"/>

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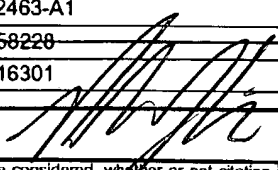
Sheet 3 of 4

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PL	39	US- 5,785,735	07/28/1998	Raskin et al.	Ab
PL	40	US- 5,792,787	08/11/1998	Medford et al.	
PL	41	US- 5,795,548	08/18/1998	Madden et al.	Ab, C4-5
PL	42	US- 5,807,884	09/15/1998	Medford et al.	
PL	43	US- 5,809,693	09/22/1998	Chet et al.	Ab
PL	44	US- 5,811,449	09/22/1998	Medford et al.	
PL	45	US- 5,814,288	09/29/1998	Madden et al.	Ab C1-5
PL	46	US- 5,814,591	09/29/1998	Mills et al.	Ab
PL	47	US- 5,821,260	10/13/1998	Medford et al.	
PL	48	US- 5,827,352	10/27/1998	Altman et al.	Ab C3-6
PL	49	US- 5,834,525	11/10/1998	Fish	Ab
PL	50	US- 5,846,959	12/08/1998	Medford et al.	
PL	77	US- 1,897,921	02/14/1933	Bacon	Figs P1-2
PL	78	US- 3,331,732	07/18/1967	Venemark	C1-2
PL	79	US- 5,599,508	02/04/1997	Martinelli et al.	Ab C2-4
PL	81	US- 6,284,100	08/04/2001	Downs et al.	
PL	82	US- 6,503,470	01/07/2003	Nolan et al.	Entire Doc
PL	83	US- 3,817,713	06/18/1974	Ionescu	Entire Doc
PL	84	US- 4,044,098	08/23/1977	Miller et al.	Ab, C2-3

FOREIGN PATENT DOCUMENTS

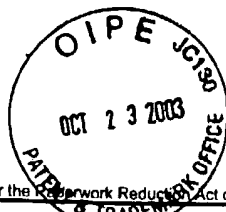
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
PL	104	DE-4105058-A1	08/20/1992	Ahrens-Botzong		
PL	105	EP-02078537-A2	01/09/1987	Norddeutsche		
PL	106	WO-97/19670	06/05/1997	Hedner et al.	Ab	
PL	107	DE-3702463-A1	08/18/1988	Holter et al.		
	115	WO-99/58228	11/18/1999	ISCA Management LTD		
PL	116	WO-98/16301	04/23/1998	Thomassen	Ab, P1-4 & P7,9	

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Sheet 4 of 4

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Application Number	09/730,100
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Attorney Docket Number	6121

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PL	85	US- 5,215,557	06/01/1993	Johnson et al.	Ab, C3-5
PL	87	US- 6,372,187	04/16/2002	Madden et al.	Ab, C2
PL	93	US- 5,419,834	05/30/1995	Straten	Ab, Fig 4 C1-3
	98	US- 6,244,304	04/10/2001	Resenthal et al.	
PL	99	US- 6,328,939	12/11/2001	Amrhein	Entire Doc
PL	103	US- 4,820,391	04/11/1989	Walker	Ab, C2-3
	108	US- 4,443,417	04/17/1984	Wiklund	
PL	109	US- 4,729,882	03/08/1988	Ide et al.	Ab, C3-4, 7-10
	140	US- 4,233,274	11/11/1980	Allgulin	
	411	US- 6,000,871	04/23/1991	Higuchi et al.	
	412	US- 6,447,740	09/11/2002	Caldwell et al.	
PL	118	US- 6,284,208	09/04/2001	Thomassen	See Cite 118
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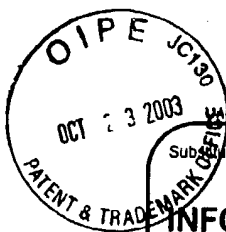
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PL	117	JP-52023862	02/23/1977	Takeda Chem Ind. Ltd	Ab	

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NON PATENT LITERATURE DOCUMENTS

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PL	51	VIDIC, R.D. ET AL., "Uptake of Elemental Mercury Vapors by Activated Carbons," Journal of the Air and Waste Management Association, March 1996, pgs 241-250 V46.	
PL	52	NOBLETT, JR. ET AL., "Control of Air Toxics from Coal-Fired Power Plants Using FPG Technology," July 1993, 15 pages, presented at RPRI Second International Conference on Managing Hazardous Air Pollutants, Washington, DC.	
PL	53	CHANG, R. ET AL., "Developing Mercury Removal Methods for Power Plants," EPRI Journal, July/August 1994, pgs 46-49.	
PL	54	FELSVANG, K. ET AL., "Air Toxics Control by Spray Dryer Absorption Systems," November 1992, pgs V1-1-V1-17, presented at Power-Gen '92, Orlando, FL.	
PL	55	CHANG, R. ET AL., "Mercury Emission Control Technologies: An EPRI Synopsis," Power Engineering, November 1995, pgs 51-57.	
PL	56	"Emission Factors Handbook: Guidelines for Estimating Trace Substance Emissions from Fossil Fuel Steam Electric Plants," November 1995, pages: Cover, Report Summary, 2, 2-11, 2-12 & 2-13, EPRI, TR-105611s.	
PL	57	"Properties of EDTA, DTPA, HEDTA, and NTA", 1974, 2 pages, advertisement by The Dow Chemical Company.	
PL	58	HALL, E.H., "Mercury Emissions and Controls," Status Report from Battelle Memorial Institute, May 1, 1994, 94TEC-1, 49 pages, Columbus, OH.	
PL	59	MEU, R., "The Fate of Mercury in Coal-Fired Power Plants and the Influence of Wet Flue-Gas Desulphurization," Water, Air and Soil Pollution, 1991, pgs 21-29, 56:21-33.	
PL	60	GLEISER, R. ET AL., "Mercury Emission Reduction Using Activated Carbon with Spray Dryer Flue Gas Desulfurization," April 25-27, 1994, pgs 452-457, presented at the 36th Annual Meeting American Power Conference, Chicago, IL.	

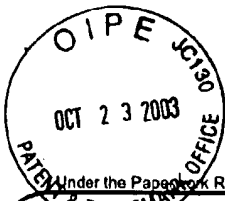
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PL	61	GLEISER, R. ET AL., "Control of Mercury from MSW Combustors by Spray DRYer Absorption Systems and Activated Carbon Injection," 1993, pgs 106-122, MSW Conference Proceedings, Williamsburg, VA.	
PL	62	PETERSON, J., "Mercury Removal by Wet Limestone FGD Systems: EPRI HSTC Test Results (94-RP114B.01)," June 19-24, 1994, pgs 1-16, presented at the 87th Annual Meeting & Exhibition of Air & Waste Management Association, Cincinnati, OH.	
PL	63	CHANG, R. ET AL., "Pilot Scale Evaluation of Activated Carbon for the Removal of Mercury at Coal-Fired Utility Power Plants," July 13-15, 1993, pgs 1-17, presented at the 2nd International Hazard Pollution Management, Washington, DC.	
PL	64	GULLETT, B.K., ET AL., "Bench-Scale Sorption and Desorption of Mercury with Activated Carbon," March 30-April 2, 1993, 8 pages presented at the International Conference MWC, Williamsburg, VA.	
PL	65	LICATA, A. ET AL., "An Economic Alternative to Controlling Acid Gases, Mercury and Dioxin from MWCs (94-MP17.06)," June 19-24, 1994, pgs 1-21, presented at the 87th Annual Meeting & Exhibition for Air & Waste Managment Association, Cincinnati, OH.	
PL	66	CHANG, R., ET AL., "Sorbent Injection for Flue Gas Mercury Control (94-WA68A)," June 1994, 13 pages, presented at the Air & Waste Management Association Conference, Cincinnati, OH.	
PL	67	JONES, C., "Consensus on Air Toxics Eludes Industry to Date," Power, October, 1994, pgs 51-52, 55-56 & 58-59.	
PL	68	MORENCY, J.R., "Control of Mercury in Fossil Fuel-Fired Power Generation," July 21, 1994, pgs 1-7, presented at DOE Contractors Meeting, Pittsburgh, PA.	
PL	69	Steam/its generation and use, 40th Edition, 1992, pgs: Cover, ii, 35-1 - 35-16, The Babcock & Wilcox Company.	
PL	70	REDINGER, K.E. ET AL., "Mercury Emissions Control in RGD Systems," August 25-29, 1997, 17 pages, presented at the EPRI/DOE/EPA Combined Utility Air Pollutant Control Symposium, Washington, DC.	

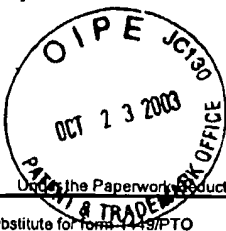
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	09/730,100
		Filing Date	December 5, 2000
		First Named Inventor	Nolan
		Art Unit	1754
		Examiner Name	Anthony J. Kuhar
Sheet 3 of 3	Attorney Docket Number	6121	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PL	71	HOLMES, M.J. ET AL., "Advanced Emissions Control Development Program," July 21-23, 1998, 16 pages, presented at the Advanced Coal-Based Power and Environmental Systems '98 Conference, Morgantown, WV.	
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PL	73	REDINGER, K.E. ET AL., "Mercury Speciation and Emissions Control in FGD Systems," March 17-20, 1997, presented at the 22nd International Technical Conference on Coal Utilization & Fuel Systems, Clearwater, FL.	
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PL	76	LIVENGOD ET AL., "Improved Mercury Control in Wet Scrubbing Through Modified Speciation," August 25-29, 1997, 16 pages, presented at the EPRI/DOE/EPA Combined Utility Air Pollutant Control Symposium, Washington, DC.	
PL	95	J. Phys. Chem. Ref. Data, 1985, pgs 803-806, Vol. 14, Suppl. 1, JANAF (Joint Army, Navy & Air Force) Thermochemical Tables.	
PL	96	J. Phys. Chem. Ref. Data, December 31, 1961, 2 pages, 2nd Edition, JANAF (Joint Army, Navy & Air Force) Thermochemical Tables.	
PL	97	Handbook of Chemistry and Physics, 1976-1977, pg B-131, 57th Edition, CRC.	
	114	Zhao, L. et al., "Mercury Absorption in Aqueous Hypochlorite," Aug. 1999-	
PL	75	REDINGER, K.E. ET AL., "Mercury Emissions Control in RGD Systems," August 25-29, 1997, 17 pages, presented at the EPRI/DOE/EPA Combined Utility Air Pollutant Control Symposium, Washington, DC.	

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